

**ABSTRACT OF THE DISCLOSURE**

Cured ethylene terpolymer attaches a film to the metal surface of a condensing heat exchanger of a condensing furnace to prevent corrosion of the condensing heat exchanger. After applying a layer of ethylene terpolymer to the metal surface of the condensing heat exchanger, a film is positioned on the layer. Water reacts with the organosilicone functional groups on the ethylene terpolymer chain, cross-linking the organosilicone functional groups and adhering the film to the surface of condensing heat exchanger. The water is provided in the film or is added by an external source. Preferably, the film is polar to encourage adhesion of the water to the film and encourage cross-linking of the organosilicone functional groups.

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